

- 1 -

piece 1, NC_000913, sbcD_phob+, config: linear, direction: +, begin: 416147, end: 416385

The diagram illustrates the *sbcD_phoB+* locus. It features a red box representing the DNA sequence. A green arrow at the top indicates transcription starting from two distinct promoters, labeled 'P₁' and 'P₂'. Two RNA molecules are shown: a long black line representing the primary transcript and a shorter blue line representing a processed transcript. The blue transcript originates from P₂ and ends at a poly-A tail (represented by a series of orange circles). A dashed black line above the DNA indicates a cleavage site. A small green box highlights a segment of the DNA between the two promoters.

ir sbcD_phoB-

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{-----} sd-(9)-ir 416169 Gap 2.3 bits {-----} sd-(10)-ir 416199 Gap 2.7 bits  
|-----| sd-ir 416169 sbcD_phob+ total 7.0 bits |-----| sd-ir 416199 sbcD_phob+ total 5.3 bits
```

[###> orf 33 codons

p10 4.5 bits

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{-----} p35-(22)-p10 416261 Gap 2.3 bits  
{-----} p35-p10 416261 total 6.9 bits
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The diagram illustrates the 41630-41638 gene cluster. It shows the DNA sequence from 5' to 3' with transcription start sites indicated by asterisks (*). The genes are color-coded: 416310 (red), 416320 (blue), 416330 (green), 416340 (orange), 416350 (purple), 416360 (pink), 416370 (light blue), and 416380 (yellow). Below the genes, the deduced amino acid sequences are shown. Red dots above the sequence indicate specific mutations or features. The proteins include fMet, ala, arg, arg, ile, leu, thr, his, asn, asp, val, ala, leu, met, ile, tyr, leu, leu, gln, gln, gly, lys, ser, trp, arg, asp, val, phe, trp, and fMet.

{-----} sd-(7)-ir 416366 Gap 3.7 bits
{-----} sd-ir 416366 sbcD_phob+ total 8.9 bits